

Release notes for ENDF/B Development e-048_Cd_000
evaluation

ENDF
B-VII.dev

October 13, 2016

- fudge-4.0 Warnings:

1. Mislabelled emitted particle
Reading ENDF file: ../e-048_Cd_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
2. FIXME: Generic fudge unimplemented message
reaction label 1: e- + Cd + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data
3. FIXME: Generic fudge unimplemented message
reaction label 2: e- + Cd [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree
reaction label 0: e- + Cd [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
2. Calculated and tabulated thresholds don't agree
reaction label 1: e- + Cd + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
3. Calculated and tabulated thresholds don't agree
reaction label 2: e- + Cd [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
4. Calculated and tabulated thresholds don't agree
reaction label 3: e- + e- + Cd1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 26688. eV!
5. Calculated and tabulated thresholds don't agree
reaction label 4: e- + e- + Cd2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3994.1 eV!
6. Calculated and tabulated thresholds don't agree
reaction label 5: e- + e- + Cd2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3730.9 eV!
7. Calculated and tabulated thresholds don't agree
reaction label 6: e- + e- + Cd2p3/2 / Cross section: (Error # 0): Threshold mismatch

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3535.4 eV!
8. Calculated and tabulated thresholds don't agree
reaction label 7: $e^- + e^- + \text{Cd}3s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 755.37 eV!

 9. Calculated and tabulated thresholds don't agree
reaction label 8: $e^- + e^- + \text{Cd}3p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 647.79 eV!

 10. Calculated and tabulated thresholds don't agree
reaction label 9: $e^- + e^- + \text{Cd}3p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 612.63 eV!

 11. Calculated and tabulated thresholds don't agree
reaction label 10: $e^- + e^- + \text{Cd}3d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 420.06 eV!

 12. Calculated and tabulated thresholds don't agree
reaction label 11: $e^- + e^- + \text{Cd}3d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 412.86 eV!

 13. Calculated and tabulated thresholds don't agree
reaction label 12: $e^- + e^- + \text{Cd}4s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 113.36 eV!

 14. Calculated and tabulated thresholds don't agree
reaction label 13: $e^- + e^- + \text{Cd}4p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.22 eV!

 15. Calculated and tabulated thresholds don't agree
reaction label 14: $e^- + e^- + \text{Cd}4p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 72.19 eV!

 16. Calculated and tabulated thresholds don't agree
reaction label 15: $e^- + e^- + \text{Cd}4d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17.71 eV!

 17. Calculated and tabulated thresholds don't agree
reaction label 16: $e^- + e^- + \text{Cd}4d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16.97 eV!

 18. Calculated and tabulated thresholds don't agree
reaction label 17: $e^- + e^- + \text{Cd}5s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.220000000000001 eV!

- `xsectplotter` Warnings:

1. Mislabelled emitted particle
Error: ZAP messed up

```
stderr while processing crossSection
```

```
WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0  
... [2 more lines]
```